

DATA DICTIONARY

- PecPocket

DATA PROCESSES									
Process Name		1.0 Storage of student database							
Description		All the student database from the whole college							
Inbound Data Flow		• Name of the student							
		• Email of the student							
		• SID of the student							
Outbound Data Flow		• Super Table							
Process Name		2.0 Registration and Authentication							
Description		Registration of the user by verification of identity and authentication level of the student							
Inbound Data Flow		• Login/Sign-up attempt							
		• User detail verification							
		• User detail status							
		• Access level of user							
Outbound Data Flow		• User Detail authentication							
		• Login/Sign-up status							
		• Access level request							
Process Name		4.0 Custom Reminder							
Description		Set custom reminders for upcoming events/quizzes/homework deadline to schedule the week and stay ahead of time							
Inbound Data Flow		• Request to set custom reminder							
Outbound Data Flow		• Notification for that custom reminder							
Process Name		5.0 Timetable							
Description		Make your semester timetable according to all your courses to keep track of all your classes							
Inbound Data Flow		• Request to set timetable							
Outbound Data Flow		• View timetable							
Process Name		6.0 Notifications							
Description		Get notifications for club/society activities or meeting via your club/society secretaries and for quizzes and evaluations via your class representatives							
Inbound Data Flow		• Get list for students in the club/society							
		• Send meeting announcement							
		• Request to view notifications							
Outbound Data Flow		• Set exam date and assignment deadlines							
		• Request list of students							
		• Send/view notification alert							
Process Name		7.0 Pec Social							
Description		Find other students and view their profile to increase socializing							
Inbound Data Flow		• Request to view profile							
Outbound Data Flow		• Show profile							
Process Name		8.0 Study Material							
Description		Get all your course books/handouts/youtube or course links at one place via your class representative							
Inbound Data Flow		• Request to view study material							
		• Request to add content							
Outbound Data Flow		• View study material							
Process Name		9.0 Attendance							

[illegible]

DATA DICTIONARY

- PecPocket

DATA FLOW									
1	Data Flow Name	Name, Email and SID of all students							
	Description	Admin stores the name, email and SID of all students in college in the database for authentication							
	From Process	-							
	To Process	1.0 Storage of student database							
	Data Structures	Super							
2	Data Flow Name	Login Attempt							
	Description	Student/CR/Secretary/Joint Secretary makes a login attempt							
	From Process	-							
	To Process	2.1 Login							
	Data Structures	SignUp, Authorization							
3	Data Flow Name	Login Status							
	Description	The login credentials are sent to the database to verify							
	From Process	2.1 Login							
	To Process	-							
	Data Structures	SignUp, Authorization							
4	Data Flow Name	Access level check							
	Description	To check the authorization level of the user							
	From Process	2.1 Login							
	To Process	-							
	Data Structures	Authorization							
5	Data Flow Name	Student detail check							
	Description	Existence status of the user is checked from the database							
	From Process	2.2 Sign-up							
	To Process	-							
	Data Structures	Super							
6	Data Flow Name	Sign-up attempt							
	Description	Check identity of the user							
	From Process	-							
	To Process	2.2 Sign-up							
	Data Structures	SignUp							
7	Data Flow Name	Update login state and auth level							
	Description	The login state and auth level are updated in the local storage							
	From Process	2.2 Sign-up							
	To Process	-							
	Data Structures	User Table (Local Storage)							
8	Data Flow Name	Update username and password							
	Description	The username and password (saved hashed) are saved into the database							
	From Process	2.2 Sign-up							
	To Process	-							

[illegible]

[illegible]

[illegible]

	To Process	8.0 Study Material		
	Data Structures	-		
36	Data Flow Name	View study material		
	Description	Show the study material for that respective subject		
	From Process	-		
	To Process	8.0 Study Material		
	Data Structures	-		
37	Data Flow Name	Class attended/not attended		
	Description	Mark the classes you attended as well as not attended for a subject		
	From Process	-		
	To Process	9.1 Mark attendance		
	Data Structures	Attendance Table & Subject Table (Local Storage)		
38	Data Flow Name	Send subject code to increment attendance		
	Description	send the subject code to in-app storage to increment the attendance of that subject		
	From Process	9.1 Mark attendance, Subjects		
	To Process	Local Storage		
	Data Structures	Attendance Table & Subject Table (Local Storage)		
39	Data Flow Name	Request attendance data		
	Description	Request the attendance data (subject, total classes held, classes attended)		
	From Process	9.3 Compute attendance %		
	To Process	Local Storage		
	Data Structures	Attendance Table & Subject Table (Local Storage)		
40	Data Flow Name	Computed attendance		
	Description	The computed attendance is given along with the number of classes the user can miss to maintain that percentage		
	From Process	9.3 Compute attendance %		
	To Process	9.2 View attendance		
	Data Structures	-		
41	Data Flow Name	Request to view attendance		
	Description	User sends request to view their attendance record		
	From Process	-		
	To Process	9.2 View attendance		
	Data Structures	-		
42	Data Flow Name	Show attendance		
	Description	The app shows the attendance details of that user for that subject		
	From Process	9.2 View attendance		
	To Process	-		
	Data Structures	-		
43	Data Flow Name	Request required Club Names corresponding to the club codes		
	Description	Get clubs names from backend to display in view profile		
	From Process	10.1 View Profile		
	To Process	-		
	Data Structures	Club Converter		
44	Data Flow Name	Request user's details		
	Description	Request for user's details to display in view profile		
	From Process	10.1 View Profile		

	To Process	-							
	Data Structures	Personal							
45	Data Flow Name	Add/Update user's instagram handle							
	Description	Request to add or update user's instagram handle in backend							
	From Process	10.2 Add/Update Instagram handle							
	To Process	-							
	Data Structures	Personal							
46	Data Flow Name	Request list of user's clubs to append/delete							
	Description	Request list of user's clubs from backend to edit it							
	From Process	10.3 Edit clubs							
	To Process	-							
	Data Structures	Personal							
47	Data Flow Name	Request search results							
	Description	The user can search for available clubs to edit his/her list							
	From Process	10.3 Edit clubs							
	To Process	-							
	Data Structures	Club Convertor							
48	Data Flow Name	Update Login/Signup status							
	Description	update the signup status from local storage in case user wants to logout							
	From Process	10.4 Log Out							
	To Process	-							
	Data Structures	User Table (Local Storage)							
49	Data Flow Name	Remove user from records							
	Description	If the user wants to delete account, we remove his records from database							
	From Process	10.5 Delete Account							
	To Process	-							
	Data Structures	Personal							
50	Data Flow Name	Remove user from tables							
	Description	If the user wants to delete account, we remove his records from tables in backend							
	From Process	10.5 Delete Account							
	To Process	-							
	Data Structures	Authorization Table, Signup Table, Notifications Table							
51	Data Flow Name	Request to check the user's password							
	Description	Request to check the user's password before deleting their account for authenticity							
	From Process	10.5 Delete Account							
	To Process	-							
	Data Structures	SignUp Table							
52	Data Flow Name	Get current password and existence status of the user							
	Description	To check the user's password before deleting their account for authenticity							
	From Process	-							
	To Process	10.5 Delete Account							
	Data Structures	SignUp Table							
53	Data Flow Name	Update new password							
	Description	Change user's password							
	From Process	10.6 Change Password							

	To Process	-							
	Data Structures	SignUp Table							
54	Data Flow Name	Request list of subjects to append/delete							
	Description	Request list of subjects from backend to edit							
	From Process	10.7 Edit subjects							
	To Process	-							
	Data Structures	Subject Table (Local Storage)							
55	Data Flow Name	Request search results							
	Description	The user can search for available subjects to edit his/her list							
	From Process	10.7 Edit subjects							
	To Process	-							
	Data Structures	Sub Convertor Table							
56	Data Flow Name	Request to store user's clubs							
	Description	Store user's clubs on local storage							
	From Process	10.3 Edit clubs							
	To Process	-							
	Data Structures	Clubs Table(Local Storage)							

DATA DICTIONARY

- PecPocket

[illegible]

	Length	1							
	Element Name	9. Semester							
	Description	Current Semester number of the student in PEC							
	Type	Integer							
	Length	1							
	Element Name	10. Club_codes							
	Description	A string of double digit club codes concatonated together based on the respective clubs and technical societies a student is a part of.							
	Type	String							
	Length	50							
	Element Name	11. Insta							
	Description	Holds the Instagram handle of a student.							
	Type	String							
	Length	50							
	Element Name	12. Subject							
	Description	Name of a subject based on the corresponding subject code							
	Type	String							
	Length	50							
	Element Name	13. Sub_code							
	Description	The subject code mapped to it's respective subject. contains 3 letters followed by three numbers, which together form a unique subject code.							
	Type	String							
	Length	100							
	Element Name	14. Club (alias = Society)							
	Description	Name of the club or technical society based on the corresponding club codes							
	Type	String							
	Length	50							
	Element Name	15. Club_code (alias = Society_code)							
	Description	The club code is a double digit number uniquely mapped to it's respective Club.							
	Type	String							
	Length	100							
	Element Name	16. Noti_id							
	Description	A unique id mapped to every notification that is sent to the backend to cast to the respective students it is meant for.							
	Type	Integer							
	Length	3							
	Element Name	17. Topic							
	Description	Represents the Topic of the event sent as a notification							
	Type	String							
	Length	50							

	Element Name	18. Description							
	Description	Holds the description of an event send as a notification.							
	Type	Text							
	Length	500							
	Element Name	19. Date							
	Description	Holds the date of the event sent in the notification.							
	Type	Date							
	Length	10							
	Element Name	20. Time							
	Description	Holds the time of the event sent in the notification.							
	Type	Time							
	Length	5							
	Element Name	21. Avatar							
	Description	Holds a string of the image name of an avatar selected by the user.							
	Type	String							
	Length	100							
	Element Name	21. Subject							
	Description	A string that stores the name of the subject based on the respective subjects that the user decides to keep a track of							
	Type	String							
	Length	100							
	Element Name	22. Subtitle							
	Description	A string that stores the name of the subtypesubject based on the respective subjects that the user decides to keep a track of (Eg Lecture, Lab, Tutorial)							
	Type	String							
	Length	20							
	Element Name	23. classesAttended							
	Description	Integer that stores the number of classes attended of a particular subject and respective subtitle							
	Type	Integer							
	Length	2							
	Element Name	24. totalClasses							
	Description	Integer that stores the number of classes attended of a particular subject and respective subtitle							
	Type	Integer							
	Length	2							
	Element Name	25. Club							
	Description	A string that stores the name of the Club/Society that the user chooses to be a part of							
	Type	String							
	Length	50							
	Element Name	26. description							
	Description	String that contains the subject and subtitle concatenated based on the respective entry in the Custom Reminders Table							
	Type	String							
	Length	150							
	Element Name	27. year							
	Description	Integer that stores the year that corresponds to the date of an entry in the Custom Reminders Table							

	Type	Integer							
	Length	4							
	Element Name	28. Month							
	Description	Integer that stores the month that corresponds to the date of an entry in the Custom Reminders Table							
	Type	Integer							
	Length	2							
	Element Name	29. Day							
	Description	Integer that stores the day that corresponds to the date of an entry in the Custom Reminders Table							
	Type	Integer							
	Length	2							
	Element Name	30. Hour							
	Description	Integer that stores the hour that corresponds to the date of an entry in the Custom Reminders Table in 24 hour format							
	Type	Integer							
	Length	2							
	Element Name	31. Minute							
	Description	Integer that stores the Minute that corresponds to the date of an entry in the Custom Reminders Table							
	Type	Integer							
	Length	2							
	Element Name	32. getNotified							
	Description	Boolean that stores the user's option regarding whether they want to get notified when an entry in the custom reminders reaches its arrival date							
	Type	Boolean							
	Length	1							
	Element Name	33. SubjectCode							
	Description	A string that stores the name of the subject code corresponding to a subject based on the respective subjects that the user decides to keep a track of							
	Type	String							
	Length	6							
	Element Name	34. Title							
	Description	A String that stores the subject and subtitle concatenated which stores the title of an entry in the attendance table							
	Type	String							
	Length	150							
	Element Name	35. startYear							
	Description	An integer that stores the starting year of an event in the Timetable table							
	Type	Integer							
	Length	4							
	Element Name	36. startMonth							
	Description	An integer that stores the starting month of an event in the Timetable table							
	Type	Integer							
	Length	2							
	Element Name	37. startDay							
	Description	An integer that stores the starting day of an event in the Timetable table							
	Type	Integer							
	Length	2							
	Element Name	38. starHour							

	Description	An integer that stores the starting hour of an event in the Timetable table in a 24 hour format		
	Type	Integer		
	Length	2		
	Element Name	39. startMinute		
	Description	An integer that stores the starting minute of an event in the Timetable table		
	Type	Integer		
	Length	2		
	Element Name	40. endYear		
	Description	An integer that stores the starting year of an event in the Timetable table		
	Type	Integer		
	Length	4		
	Element Name	41. endMonth		
	Description	An integer that stores the starting month of an event in the Timetable table		
	Type	Integer		
	Length	2		
	Element Name	42. endDay		
	Description	An integer that stores the starting day of an event in the Timetable table		
	Type	Integer		
	Length	2		
	Element Name	43. endHour		
	Description	An integer that stores the starting hour of an event in the Timetable table in a 24 hour format		
	Type	Integer		
	Length	2		
	Element Name	44. endMinute		
	Description	An integer that stores the starting minute of an event in the Timetable table		
	Type	Integer		
	Length	2		
	Element Name	45. Interval		
	Description	An integer that stores how frequently an event is repeated in the Timetable table (eg. 7 for weekly, 365 for other)		
	Type	Integer		
	Length	3		
	Element Name	46. SID		
	Description	An integer that stores the sid that a user signs up with		
	Type	Integer		
	Length	8		
	Element Name	47. Password		
	Description	A string that the user chooses to sign up with		
	Type	String		
	Length	20		
	Element Name	48. Auth		
	Description	An integer that stores the authorisation level of a user, 0 = student, 1 = CR, 2 = Club/Society Secretary/Joint Secretery		
	Type	Integer		
	Length	1		
	Element Name	49. Login		
	Description	An integer that stores the login status of a user, 0 = logged out, 1 = logged in		
	Type	Integer		
	Length	1		

- PecPocket

DATA STORES									
Data Store Name	1. Super Table								
Description	Contains details of Name, SID and official PEC email address of every student in PEC.								
Inbound Data Flows	1. Storage of Student Database 2.2 Sign-up								
Outbound Data Flows	2. User Detail status								
Data Description	SID(Primary key), Name, Email								
Data Store Name	2. SignUp Table								
Description	Contains the SID and the hashed passwords of all the Users who have an account registered with the application.								
Inbound Data Flows	2.1 Account existence check 2.2 Add user's password 10.6 Request to check user's existence and password 10.6 Update new password								
Outbound Data Flows	2.1 Account existence status 10.6 Get user's existence and password								
Data Description	SID(primary key), Password								
Data Store Name	3. Authorization Table								
Description	Hold the authorization level of students who are secretaries/joint secretaries of clubs/technical societies or are Class Representatives of their class.								
Inbound Data Flows	2.1 Access Level Check 10.5 Remove user from table								
Outbound Data Flows	2.1 Acces Level Status								
Data Description	SID(primary key), Auth, Domain								
Data Store Name	4. Personal Table								
Description	Contains basic data of the user which includes their name, semester year etc.								
Inbound Data Flows	2.3 Save list of clubs of user 6.2 Request list of students from that secy's club 6.4 Request list of students from that CR's branch and year 10.5 Remove user from table								
Outbound Data Flows	6.2 Get list of students from that secy's club 6.4 Get list of students from that CR's branch and year 10. Get user details								
Data Description	SID (primary key, Foreign Key [reference to SignUp]), Name, Branch, Year, Semester, Clubs, Insta, Avatar								
Data Store Name	5. Sub_converter Table								
Description	Contains subject names for every subject code respectively and used to fetch subject names from their respective subject codes.								
Inbound Data Flows	10.7 Request search results								
Outbound Data Flows	10.7 Get search results								
Data Description	Sub_code(primary key), Subject								

[illegible]

DATA DICTIONARY

- PecPocket

DATA STORES									
Data Structure Name					Values				
1. Super =					SID + Name + Email				
2. SignUp =					SID + Password				
3. Auth =					SID + Auth + Domain				
4. Personal =					SID + Name + Branch + Year + Semester + (Club_codes) + (Insta) + (Avatar)				
5. Sub_converter =					Sub_code + Subject				
6. Club_converter =					Club_code + Club				
7. Notifications =					Noti_id + Topic + Description + Date + Time				
8. Student_Noti =					SID + Noti_id				
9. Attendance =					Subject, Subtitle + ClassAttended + TotalClasses				
10. Clubs =					ClubName + id				
11. Reminder =					Description + Year + Month + Day + Hour + getNotified				
12. Subjects =					SubjectCode + Subject				
13. Timetable =					Title + startYear + startMonth + startDay + StartHour + startMinute + endYear + endMonth + endDay + endHour + endMinute + interval				
14. User =					Sid + Password + Auth + Login				